

3M Scotch-Weld™ 183 B/A Translucent Epoxy Adhesive

Category : Polymer , Thermoset , Epoxy , Epoxy Adhesive

Material Notes:

3M™ Scotch-Weld™ Epoxy Adhesive 1838 B/A is a controlled flowable product. This epoxy adhesives are two-part, room temperature curing structural adhesives with high shear strengths and excellent environmental resistance. Excellent for bonding many metals, woods, rubbers and some plastics. Information provided by 3M

Order this product through the following link:

http://www.lookpolymers.com/polymer_3M-Scotch-Weld-183-BA-Translucent-Epoxy-Adhesive.php

Physical Properties	Metric	English	Comments
Viscosity	6000 - 12000 cP	6000 - 12000 cP	
	11000 - 15000 cP	11000 - 15000 cP	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	80 - 85	80 - 85	
Elongation at Break	3.0 - 7.0 %	3.0 - 7.0 %	
Shear Strength	7.24 MPa	1050 psi	CRS Overlap, 100% RH at 49°C
	14.8 MPa	2150 psi	CRS Overlap, White Gas @ RT
	15.5 MPa	2250 psi	CRS Overlap, Tap Water at RT
	16.5 - 17.2 MPa	2400 - 2500 psi	CRS Overlap
	20.0 MPa	2900 psi	CRS Overlap, Hydraulic Oil at RT
	2.07 MPa @Temperature 82.0 °C	300 psi @Temperature 180 °F	Aluminum Overlap; ASTM D1002
Peel Strength	13.8 MPa @Temperature -55.0 °C	2000 psi @Temperature -67.0 °F	Aluminum Overlap; ASTM D1002
	17.2 MPa @Temperature 24.0 °C	2500 psi @Temperature 75.2 °F	Aluminum Overlap; ASTM D1002
	0.701 kN/m @Temperature 24.0 °C	4.00 pli @Temperature 75.2 °F	Aluminum T-Peel; ASTM D1876
	0.701 kN/m @Temperature 82.0 °C	4.00 pli @Temperature 180 °F	Aluminum T-Peel; ASTM D1876
	0.877 kN/m	5.00 pli	

Mechanical Properties	Metric	English	Comments
	@Temperature -55.0 °C	@Temperature -67.0 °F	Aluminum T-Peel; ASTM D1876

Thermal Properties	Metric	English	Comments
CTE, linear	301 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$	167 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$	
	@Temperature 20.0 - 120 °C	@Temperature 68.0 - 248 °F	
Thermal Conductivity	0.200 W/m-K	1.39 BTU-in/hr-ft ² -°F	
Glass Transition Temp, Tg	32.0 °C	89.6 °F	

Electrical Properties	Metric	English	Comments
Volume Resistivity	5.00e+12 ohm-cm	5.00e+12 ohm-cm	
Dielectric Constant	6.1	6.1	
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Dielectric Strength	23.6 kV/mm	600 kV/in	
Dissipation Factor	0.088	0.088	
	@Frequency 1000 Hz	@Frequency 1000 Hz	

Descriptive Properties	Value	Comments
Appearance	Amber	Accelerator
	Clear	Base
	Clear/Amber	

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